

- 22 -

ADHESIVE COMPOSITIONS AND METHODS OF USING  
AND MAKING THE SAME

*ABSTRACT OF THE DISCLOSURE*

- 5        Adhesive compositions produced from abundant and renewable resources such as lignocellulosic materials, particularly decayed lignocellulosic materials or demethylated lignin. Other components present in particular examples of the adhesive compositions include relatively inexpensive materials, such as borates and/or polyethyleneimine. Also disclosed are lignocellulosic composites that are made from  
10      the adhesive compositions.